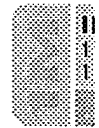


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1 A fast algorithm for large vocabulary keyword spotting application

Eng-Fong Huang; Hsiao-Chuan Wang; Soong, F.K.;

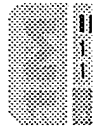
Speech and Audio Processing, IEEE Transactions on , Volume: 2 , Issue: 3 , Jun 1994

Pages:449 - 452

[\[Abstract\]](#) [\[PDF Full-Text \(364 KB\)\]](#) **IEEE JNL**

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1 Using natural-language processing to produce weather forecasts
Goldberg, E.; Driedger, N.; Kittredge, R.I.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 2 , April

Pages:45 - 53

[\[Abstract\]](#) [\[PDF Full-Text \(976 KB\)\]](#) **IEEE JNL**
2 Three-layered fuzzy inference and self-wondering mechanism as natural language processing engine of FLINS
Tano, S.; Okamoto, W.; Iwatani, T.; Inoue, A.; Fujioka, R.;

Tools with Artificial Intelligence, 1994. Proceedings., Sixth International Conference on , 6-9 Nov. 1994

Pages:212 - 218

[\[Abstract\]](#) [\[PDF Full-Text \(540 KB\)\]](#) **IEEE CNF**
3 Natural-language processing
Patten, T.; Jacobs, P.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 1 , Feb.

Pages:35

[\[Abstract\]](#) [\[PDF Full-Text \(80 KB\)\]](#) **IEEE JNL**
4 Natural language processing tools and environments: the field in perspective
Manaris, B.Z.;

Tools with Artificial Intelligence, 1994. Proceedings., Sixth International Conference on , 6-9 Nov. 1994

Pages:228

[\[Abstract\]](#) [\[PDF Full-Text \(76 KB\)\]](#) IEEE CNF

5 Applying parallel processing to natural-language processing

Minhwa Chung; Moldevan, D.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 1 , Feb.

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Manaris, B.Z.;

Tools with Artificial Intelligence, 1994. Proceedings., Sixth International Conference on , 6-9 Nov. 1994

Pages:228

[\[Abstract\]](#)
[\[PDF Full-Text \(76 KB\)\]](#)

IEEE CNF

2 Flight schedule query system based on natural language processing
Hamza, M.A.B.M.; Ahmad, A.M.;

Research and Development, 2002. SCORed 2002. Student Conference on , 16 July 2002

Pages:80 - 82

[\[Abstract\]](#)
[\[PDF Full-Text \(275 KB\)\]](#)

IEEE CNF

3 DAI interaction protocols as control strategies in a natural language processing system
Koning, J.-L.; Stefanini, M.-H.; Demazeau, Y.;

Systems, Man and Cybernetics, 1995. 'Intelligent Systems for the 21st Century' IEEE International Conference on , Volume: 4 , 22-25 Oct. 1995

Pages:3150 - 3155 vol.4

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[\[PDF Full-Text \(592 KB\)\]](#)

IEEE CNF

4 Multilingual natural language processing environments
Walters, R.F.; Zhang, C.;

Artificial Intelligence for Applications, 1992., Proceedings of the Eighth Conference on , 2-6 March 1992

Pages:186 - 190

[\[Abstract\]](#) [\[PDF Full-Text \(440 KB\)\]](#) IEEE CNF

5 Applying parallel processing to natural-language processing

Minhwa Chung; Moldevan, D.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 1 , Feb.

Pages:36 - 44

[\[Abstract\]](#) [\[PDF Full-Text \(652 KB\)\]](#) IEEE JNL

6 Thesauruses for natural language processing

Kilgarriff, A.;

Natural Language Processing and Knowledge Engineering, 2003. Proceedings. International Conference on , 26-29 Oct. 2003

Pages:5 - 13

[\[Abstract\]](#) [\[PDF Full-Text \(481 KB\)\]](#) IEEE CNF

7 Research on Web monitoring system based on natural language processing

Liu Lin; Fan Xiaozhong; Zhao Xunping;

Natural Language Processing and Knowledge Engineering, 2003. Proceedings. International Conference on , 26-29 Oct. 2003

Pages:746 - 751

[\[Abstract\]](#) [\[PDF Full-Text \(385 KB\)\]](#) IEEE CNF

8 Heuristic metrics for AI problem domains such as natural language processing

Facemire, J.;

System Theory, 1989. Proceedings., Twenty-First Southeastern Symposium on , 26-28 March 1989

Pages:658 - 661

[\[Abstract\]](#) [\[PDF Full-Text \(296 KB\)\]](#) IEEE CNF

9 Natural-language processing

Patten, T.; Jacobs, P.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 1 , Feb.

Pages:35

[\[Abstract\]](#) [\[PDF Full-Text \(80 KB\)\]](#) IEEE JNL

10 Integrating natural language processing and information retrieval i troubleshooting help desk

Anick, P.G.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 8 , Issue: 6 , Dec.

Pages:9 - 17

[\[Abstract\]](#) [\[PDF Full-Text \(912 KB\)\]](#) IEEE JNL

11 An overview of natural language processing techniques in text-to-speech systems

Kulekci, M.O.; Oflazer, K.;

Signal Processing and Communications Applications Conference, 2004. Proceedings of the IEEE 12th , 28-30 April 2004

Pages:454 - 457

[\[Abstract\]](#) [\[PDF Full-Text \(382 KB\)\]](#) IEEE CNF

12 Bridge knowledge and languages: the application of computational linguistics

Zhao Jun; Sui Zhifang;

Natural Language Processing and Knowledge Engineering, 2003. Proceedings. International Conference on , 26-29 Oct. 2003

Pages:828 - 837

[\[Abstract\]](#) [\[PDF Full-Text \(545 KB\)\]](#) IEEE CNF

13 2003 International Conference on Natural Language Processing and Knowledge Engineering (IEEE Cat. No.03EX703)

Natural Language Processing and Knowledge Engineering, 2003. Proceedings. International Conference on , 26-29 Oct. 2003

[\[Abstract\]](#) [\[PDF Full-Text \(749 KB\)\]](#) IEEE CNF

14 Natural language processing with neural networks

Ma, Q.;

Language Engineering Conference, 2002. Proceedings , 13-15 Dec. 2002

Pages:45 - 56

[\[Abstract\]](#) [\[PDF Full-Text \(1725 KB\)\]](#) IEEE CNF

15 Natural language processing complexity and parallelism

Moghrabi, C.; Moussa, S.E.; Eid, M.S.;

High Performance Computing Systems and Applications, 2002. Proceedings. 1 Annual International Symposium on , 16-19 June 2002

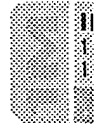
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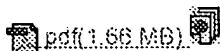
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1 [Special issue of the lexicon: Large lexicons for natural language processing: utilising the grammar coding system of LDOCE](#)

Bran Boguraev, Ted Briscoe

July 1987 **Computational Linguistics**, Volume 13 Issue 3-4

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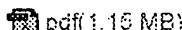
This article focusses on the derivation of large lexicons for natural language processing. We describe the development of a dictionary support environment linking a restructured version of the Longman Dictionary of Contemporary English to natural language processing systems. The process of restructuring the information in the machine readable version of the dictionary is discussed. The Longman grammar code system is used to construct 'theory neutral' lexical entries. We demonstrate how such lexi ...

2 [Transportable natural language processing through simplicity—the PRE system](#)

Samuel S. Epstein

April 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 2

Full text available:



[pdf \(1.15 MB\)](#)

[Additional Information: full citation, abstract, references, citations, index terms](#)

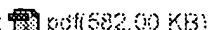
PRE (Purposefully Restricted English) is a restricted English database query language whose implementation has addressed engineering goals, namely, habitability, interapplication transportability, performance, and use with a reliable database management system that supports large numbers of concurrent users and large databases. Habitability has not been demonstrated, but initial indications are encouraging. The other goals have clearly been achieved. The existence of the PRE system demonstr ...

3 [Hypermedia & TAL: Semantic Network Array Processor as a massively parallel computing platform for high performance and large-scale natural language processing](#)

Hiroaki Kitano, Dan Moldovan

August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 2**

Full text available:



[pdf \(582.00 KB\)](#)

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This paper demonstrates the utility of the Semantic Network Array Processor (SNAP) as a massively parallel platform for high performance and large-scale natural language processing systems. SNAP is an experimental massively parallel machine which is dedicated to, but not limited to, the natural language processing using semantic networks. In

designing the SNAP, we have investigated various natural language processing systems and theories to determine the scope of the hardware support and a set o ...

4 [Knowledge and natural language processing](#)

Jim Barnett, Kevin Knight, Inderjeet Mani, Elaine Rich

August 1990 **Communications of the ACM**, Volume 33 Issue 8

Full text available:  [pdf\(3.85 MB\)](#)

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KBNL is a knowledge-based natural language processing system that is novel in several ways, including the clean separation it enforces between linguistic knowledge and world knowledge, and its use of knowledge to aid in lexical acquisition. Applications of KBNL include intelligent interfaces, text retrieval, and machine translation.

Keywords: parsing

5 [A distributed multi-agent architecture for natural language processing](#)

Danilo Fum, Giovanni Guida, Carlo Tasso

August 1988 **Proceedings of the 12th conference on Computational linguistics - Volume 2**

Full text available:  [pdf\(379.95 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The paper presents a distributed multi-agent architecture for natural language processing. This architecture proposes a novel concept of distributed problem solving, which incorporates in a unitary framework the following key-points; large-grained heterogeneous agents, centralized knowledge-based control, and mixed event-driven and goal-driven operation. It provides, moreover, a flexible tool for the design of natural language processing systems, both motivated from the cognitive point of view a ...


6 [Decomposable modeling in natural language processing](#)

Rebecca F. Bruce, Janyce M. Wiebe

June 1999 **Computational Linguistics**, Volume 25 Issue 2

Full text available:  [pdf\(921.88 KB\)](#)

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In this paper, we describe a framework for developing probabilistic classifiers in natural language processing. Our focus is on formulating models that capture the most important interdependencies among features, to avoid overfitting the data while also characterizing the data well. The class of probability models and the associated inference techniques described here were developed in mathematical statistics, and are widely used in artificial intelligence and applied statistics. Our goal is to ...


7 [Transformation-based error-driven learning and natural language processing: a case study in part-of-speech tagging](#)

Eric Brill

December 1995 **Computational Linguistics**, Volume 21 Issue 4

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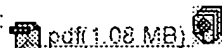
Recently, there has been a rebirth of empiricism in the field of natural language processing. Manual encoding of linguistic information is being challenged by automated corpus-based learning as a method of providing a natural language processing system with linguistic knowledge. Although corpus-based approaches have been successful in many different areas of natural language processing, it is often the case that these methods capture the

linguistic information they are modelling indirectly in la ...

8 Inheritance in natural language processing

Walter Daelemans, Koenraad De Smedt, Gerald Gazdar
June 1992 **Computational Linguistics**, Volume 18 Issue 2

Full text available:



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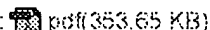
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In this introduction to the special issues, we begin by outlining a concrete example that indicates some of the motivations leading to the widespread use of inheritance networks in computational linguistics. This example allows us to illustrate some of the formal choices that have to be made by those who seek network solutions to natural language processing (NLP) problems. We provide some pointers into the extensive body of AI knowledge representation publications that have been concerned with t ...

9 Book reviews: Review of "Natural language processing" by Hugh M. Noble. Blackwell Scientific Publications 1988.

Elena Pascaleva, Dan Fass
September 1989 **Computational Linguistics**, Volume 15 Issue 3

Full text available:



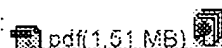
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10 A phrase-structured grammatical framework for transportable natural language processing

Bruce W. Ballard, Nancy L. Tinkham
April 1984 **Computational Linguistics**, Volume 10 Issue 2

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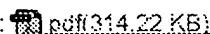
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We present methods of dealing with the syntactic problems that arise in the construction of natural language processors that seek to allow users, as opposed to computational linguists, to customize an interface to operate with a new domain of data. In particular, we describe a *grammatical formalism*, based on augmented phrase-structure rules, which allows a parser to perform many important domain-specific disambiguations by reference to a pre-defined grammar and a collection of auxiliary f ...

11 Commercial applications of natural language processing

Kenneth W. Church, Lisa F. Rau
November 1995 **Communications of the ACM**, Volume 38 Issue 11

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Vast quantities of text are becoming available in electronic form, ranging from published documents (e.g., electronic dictionaries, encyclopedias, libraries and archives for information retrieval services), to private databases (e.g., marketing information, legal records, medical histories), to personal email and faxes. Online information services are reaching mainstream computer users. There were over 15 million Internet users in 1993, and projections are for 30 million in 1997. With media ...

12 Technical correspondence: Workshop on the evaluation of natural language processing systems

Martha Palmer, Tim Finin

September 1990 **Computational Linguistics**, Volume 16 Issue 3

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13 [Information retrieval using robust natural language processing](#)

Tomek Strzalkowski, Barbara Vauthey

June 1992 **Proceedings of the 30th conference on Association for Computational Linguistics**

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We developed a prototype information retrieval system which uses advanced natural language processing techniques to enhance the effectiveness of traditional key-word based document retrieval. The backbone of our system is a statistical retrieval engine which performs automated indexing of documents, then search and ranking in response to user queries. This core architecture is augmented with advanced natural language processing tools which are both robust and efficient. In early experiments, the ...

14 [Research activities on natural language processing of the FGCS project](#)

Toshio Yokoi, Kuniaki Mukai, Hideo Miyoshi, Yuichi Tanaka

November 1999 **Proceedings of 1986 ACM Fall joint computer conference**


Full text available:  pdf(579.38 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

15 [An efficient natural language processing system specially designed for the Chinese language](#)

Lin-Shan Lee, Long-Ji Lin, K. J. Chen, Lee-Feng Chien, James Huang

December 1991 **Computational Linguistics**, Volume 17 Issue 4

Full text available:  pdf(1.72 MB)

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In this paper an efficient natural language processing system specially designed for the Chinese language is presented. The center of the present system is a bottom-up chart parser with head-driven operation; i.e., phrases are built up by starting with their heads and adjoining constituents to the left or right of the heads instead of strictly from left to right. In this way many more unnecessary searching actions can be effectively eliminated. The present system also includes several efficient ...

16 [Machine tractable dictionaries as tools and resources for natural language processing](#)

Yorick Wilks, Dan Fass, Cheng-ming Guo, James E. McDonald, Tony Plate, Brian M. Slator

August 1988 **Proceedings of the 12th conference on Computational linguistics - Volume 2**

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This paper discusses three different but related large-scale computational methods for the transformation of machine readable dictionaries (MRDs) into machine tractable dictionaries, i.e., MRDs converted into a format usable for natural language processing tasks. The MRD used is *The Longman Dictionary of Contemporary English*.

17 [Book reviews: Review of "Natural language processing in LISP: an introduction to computational linguistics", "Natural language processing in POP-11: an introduction to computational linguistics", and "Natural language processing in PROLOG: an](#)

introduction to computational linguistics" by GERALD Gazdar and Chris Mellish. Addison-Wesley 1989.

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June 1990 **Computational Linguistics**, Volume 16 Issue 2

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18 Natural Language Processing in the undergraduate curriculum

Mary Dee Harris Fosberg

February 1981 **ACM SIGCSE Bulletin , Proceedings of the twelfth SIGCSE technical symposium on Computer science education**, Volume 13 Issue 1

Full text available:  [pdf\(610.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The course, Natural Language Processing, is an upper-level course for computer science majors. The pre-requisites include Survey of Programming Languages and Data Structures, so most students have at least 21 hours of Computer Science. Because the course is only offered every two years, many students will have taken more than 21 hours. The course is organized into four primary sections: text processing, sentence generation, sentence analysis, and case studies.

19 Evaluating natural language processing systems

Margaret King

January 1996 **Communications of the ACM**, Volume 39 Issue 1

Full text available:  [pdf\(537.55 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

20 Book reviews: Review of "Foundations of statistical natural language processing" by Christopher D. Manning and Hinrich Schütze. The MIT Press 1999.

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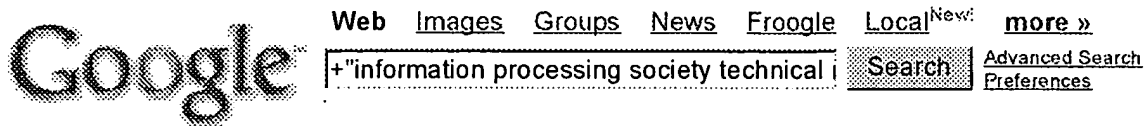
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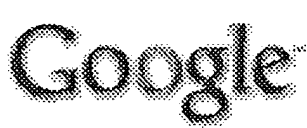
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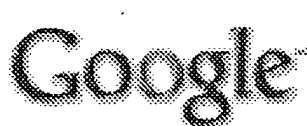
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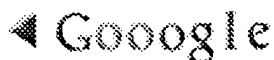
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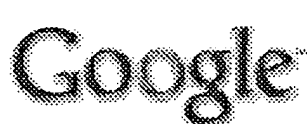


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